

Table 3
 Soil Analytical Results - Metals
 Compared to NJDEP Residential and Non-Residential SRS
 PPG Non-Residential Chromium Remediation Project
 Site 186 Remedial Action Work Plan

					186-A1		186-A1		186-A1		186-A2		186-A2		186-A2		186-A3		186-A3		186-A3	
					1 - 1.5 ft		5 - 5.5 ft		7 - 7.5 ft		1 - 1.5 ft		5 - 5.5 ft		7 - 7.5 ft		0 - 0.5 ft		2 - 2.5 ft		5 - 5.5 ft	
					186-A1-1.0		186-A1-5.0		186-A1-7.0		186-A2-1.0		186-A2-5.0		186-A2-7.0		186-A3-0.0		186-A3-2.0		186-A3-5.0	
					460-35806-15		460-35806-16		460-35806-17		460-35806-12		460-35806-13		460-35806-14		460-35806-8		460-35806-9		460-35806-10	
					1/16/2012		1/16/2012		1/16/2012		1/16/2012		1/16/2012		1/16/2012		1/16/2012		1/16/2012		1/16/2012	
					N		N		N		N		N		N		N		N		N	
Analyte	CAS-RN	RDCSRS	NRDCSRS	Units	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q
ANTIMONY	7440-36-0	31	450	mg/kg	2.0	J																
CHROMIUM	7440-47-3	120000		mg/kg	118		31.1		17.1		64.8		37.3		17.8		510		24.9		29.8	
CHROMIUM (HEXAVALENT)	18540-29-9	20	20	mg/kg	24.2	J	2.0	J	< 0.89	UJ	2.6	J	0.94	J	< 0.93	UJ	22.7	J	1.1	J	1.0	J
NICKEL	7440-02-0	1600	23000	mg/kg	22.0																	
THALLIUM	7440-28-0	5	79	mg/kg	< 0.25	U																
VANADIUM	7440-62-2	78	1100	mg/kg	34.6																	

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 PPG Non-Residential Chromium Remediation Project
 Site 186 Remedial Action Work Plan

					186-A3		186-A4		186-A4		186-A5		186-A5		186-A5		186-A5		186-A5		186-A6	
					6 - 6.5 ft		0 - 0.5 ft		5 - 5.5 ft		0 - 0.5 ft		2 - 2.5 ft		5 - 5.5 ft		5 - 5.5 ft		7 - 7.5 ft		0 - 0.5 ft	
					186-A3-6.0		186-A4-0.0		186-A4-5.0		186-A5-0.0		186-A5-2.0		186-A5-5.0		186-A5-5.0x		186-A5-7.0		186-A6-0.0	
					460-35806-11		460-35806-6		460-35806-7		460-35806-1		460-35806-2		460-35806-4		460-35806-3		460-35806-5		460-35849-13	
					1/16/2012		1/16/2012		1/16/2012		1/16/2012		1/16/2012		1/16/2012		1/16/2012		1/16/2012		1/17/2012	
					N		N		N		N		N		N		FD		N		N	
Analyte	CAS-RN	RDCSRS	NRDCSRS	Units	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q
ANTIMONY	7440-36-0	31	450	mg/kg																		
CHROMIUM	7440-47-3	120000		mg/kg	25.5		30.1		17.2		65.0		300		25.9		30.2		15.4		45.8	
CHROMIUM (HEXAVALENT)	18540-29-9	20	20	mg/kg	< 0.97	UJ	< 0.81	UJ	< 0.86	UJ	0.84	J	5.6	J	< 0.85	UJ	1.2	J	< 0.90	UJ	< 0.87	U
NICKEL	7440-02-0	1600	23000	mg/kg																		
THALLIUM	7440-28-0	5	79	mg/kg																		
VANADIUM	7440-62-2	78	1100	mg/kg																		

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PPG Non-Residential Chromium Remediation Project
Site 186 Remedial Action Work Plan

					186-A6		186-A6		186-A7		186-A7		186-A7		186-A8		186-A8		186-A9		186-A9	
					5 - 5.5 ft		7 - 7.5 ft		0 - 0.5 ft		5 - 5.5 ft		7 - 7.5 ft		0 - 0.5 ft		5 - 5.5 ft		0 - 0.5 ft		5 - 5.5 ft	
					186-A6-5.0		186-A6-7.0		186-A7-0.0		186-A7-5.0		186-A7-7.0		186-A8-0.0		186-A8-5.0		186-A9-0.0		186-A9-5.0	
					460-35849-14		460-35849-15		460-35849-16		460-35849-17		460-35849-18		460-35849-22		460-35849-23		460-35849-19		460-35849-20	
					1/17/2012		1/17/2012		1/17/2012		1/17/2012		1/17/2012		1/17/2012		1/17/2012		1/17/2012		1/17/2012	
					N		N		N		N		N		N		N		N		N	
Analyte	CAS-RN	RDCSRS	NRDCSRS	Units	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q
ANTIMONY	7440-36-0	31	450	mg/kg																		
CHROMIUM	7440-47-3	120000		mg/kg	18.7		19.8		58.3		27.6		17.5		376		52.6		185		91.7	
CHROMIUM (HEXAVALENT)	18540-29-9	20	20	mg/kg	< 0.99 U		< 0.96 U		< 0.86 U		0.98 J		< 0.94 U		< 0.85 U		1.9 J		< 0.88 U		< 0.84 U	
NICKEL	7440-02-0	1600	23000	mg/kg																		
THALLIUM	7440-28-0	5	79	mg/kg																		
VANADIUM	7440-62-2	78	1100	mg/kg																		

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 PPG Non-Residential Chromium Remediation Project
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					186-A9		186-A10		186-A10		186-A11		186-A11		186-A11		186-A12		186-A12		186-A12	
					7 - 7.5 ft		0 - 0.5 ft		5 - 5.5 ft		0 - 0.5 ft		5 - 5.5 ft		7 - 7.5 ft		0 - 0.5 ft		5 - 5.5 ft		7 - 7.5 ft	
					186-A9-7.0		186-A10-0.0		186-A10-5.0		186-A11-0.0		186-A11-5.0		186-A11-7.0		186-A12-0.0		186-A12-5.0		186-A12-7.0	
					460-35849-21		460-35806-18		460-35806-19		460-35849-10		460-35849-11		460-35849-12		460-35849-7		460-35849-8		460-35849-9	
					1/17/2012		1/16/2012		1/16/2012		1/17/2012		1/17/2012		1/17/2012		1/17/2012		1/17/2012		1/17/2012	
					N		N		N		N		N		N		N		N		N	
Analyte	CAS-RN	RDCSRS	NRDCSRS	Units	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q
ANTIMONY	7440-36-0	31	450	mg/kg																		
CHROMIUM	7440-47-3	120000		mg/kg	349		48.3		172		14.8		22.6		16.8		10.7		12.4		13.3	
CHROMIUM (HEXAVALENT)	18540-29-9	20	20	mg/kg	< 1.1	U	< 0.80	UJ	1.9	J	< 0.85	U	< 0.96	U	< 1.0	U	< 0.76	U	< 0.85	U	< 0.92	U
NICKEL	7440-02-0	1600	23000	mg/kg																		
THALLIUM	7440-28-0	5	79	mg/kg																		
VANADIUM	7440-62-2	78	1100	mg/kg																		

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PPG Non-Residential Chromium Remediation Project
Site 186 Remedial Action Work Plan

					186-A13		186-A13		186-A13		186-A13		186-A14		186-A14		186-A15		186-A15		186-B1	
					0 - 0.5 ft		5 - 5.5 ft		5 - 5.5 ft		7 - 7.5 ft		0 - 0.5 ft		5 - 5.5 ft		0 - 0.5 ft		5 - 5.5 ft		0.5 - 1 ft	
					186-A13-0.0		186-A13-5.0		186-A13-5.0x		186-A13-7.0		186-A14-0.0		186-A14-5.0		186-A15-0.0		186-A15-5.0		186-B1-0.5	
					460-35849-3		460-35849-5		460-35849-4		460-35849-6		460-35849-1		460-35849-2		460-35806-20		460-35806-21		460-25986-1	
					1/17/2012		1/17/2012		1/17/2012		1/17/2012		1/17/2012		1/17/2012		1/16/2012		1/16/2012		4/30/2011	
					N		N		FD		N		N		N		N		N		N	
Analyte	CAS-RN	RDCSRS	NRDCSRS	Units	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q
ANTIMONY	7440-36-0	31	450	mg/kg																		
CHROMIUM	7440-47-3	120000		mg/kg	12.8		172		177		19.8		22.1		20.5		68.9		8.5			
CHROMIUM (HEXAVALENT)	18540-29-9	20	20	mg/kg	< 0.84	U	< 1.2	U	< 1.2	U	< 0.93	U	< 0.80	U	7.6		1.6	J	< 0.84	U	0.88	J
NICKEL	7440-02-0	1600	23000	mg/kg																		
THALLIUM	7440-28-0	5	79	mg/kg																		
VANADIUM	7440-62-2	78	1100	mg/kg																		

Table 3
Soil Analytical Results - Metals
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PPG Non-Residential Chromium Remediation Project
Site 186 Remedial Action Work Plan

					186-B1		186-B1		186-B1		186-B1		186-B1		186-B1		186-B2		186-B2		186-B2	
					2 - 2.5 ft		2.5 - 3 ft		4 - 4.5 ft		6 - 6.5 ft		8 - 8.5 ft		14 - 14.5 ft		0.5 - 1 ft		2 - 2.5 ft		2.5 - 3 ft	
					186-B1-2.0		186-B1-2.5		186-B1-4.0		186-B1-6.0		186-B1-8.0		186-B1-14.0		186-B2-0.5		186-B2-2.0		186-B2-2.5	
					460-25986-2		460-25986-3		460-25986-4		460-25986-17		460-25986-18		460-25986-19		460-25986-5		460-25986-6		460-25986-7	
					4/30/2011		4/30/2011		4/30/2011		4/30/2011		4/30/2011		4/30/2011		4/30/2011		4/30/2011		4/30/2011	
					N		N		N		N		N		N		N		N		N	
Analyte	CAS-RN	RDCSRS	NRDCSRS	Units	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q
ANTIMONY	7440-36-0	31	450	mg/kg			< 1.0	UJ					< 1.1	UJ	< 0.97	UJ					< 1.0	UJ
CHROMIUM	7440-47-3	120000		mg/kg																		
CHROMIUM (HEXAVALENT)	18540-29-9	20	20	mg/kg	< 0.57	UJ			0.74	J	< 0.66	UJ	< 0.61	UJ			0.99	J	< 0.57	UJ		
NICKEL	7440-02-0	1600	23000	mg/kg			14.5						14.2		11.7						13.6	
THALLIUM	7440-28-0	5	79	mg/kg																		
VANADIUM	7440-62-2	78	1100	mg/kg			23.0						21.0		19.8						33.2	

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Compared to NJDEP Residential and Non-Residential SRS
PPG Non-Residential Chromium Remediation Project
Site 186 Remedial Action Work Plan

					186-B2		186-B2		186-B2		186-B2		186-B3		186-B3		186-B3		186-B3		186-B3	
					4 - 4.5 ft		6 - 6.5 ft		8 - 8.5 ft		13.5 - 14 ft		0.5 - 1 ft		2 - 2.5 ft		2.5 - 3 ft		4 - 4.5 ft		6 - 6.5 ft	
					186-B2-4.0		186-B2-6.0		186-B2-8.0		186-B2-13.5		186-B3-0.5		186-B3-2.0		186-B3-2.5		186-B3-4.0		186-B3-6.0	
					460-25986-8		460-25986-20		460-25986-21		460-25986-22		460-25986-9		460-25986-10		460-25986-11		460-25986-12		460-25986-23	
					4/30/2011		4/30/2011		4/30/2011		4/30/2011		4/30/2011		4/30/2011		4/30/2011		4/30/2011		4/30/2011	
					N		N		N		N		N		N		N		N		N	
Analyte	CAS-RN	RDCSRS	NRDCSRS	Units	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q
ANTIMONY	7440-36-0	31	450	mg/kg					< 1.1	UJ	< 1.0	UJ					< 1.0	UJ				
CHROMIUM	7440-47-3	120000		mg/kg																		
CHROMIUM (HEXAVALENT)	18540-29-9	20	20	mg/kg	< 0.58	UJ	< 0.62	UJ	< 0.63	UJ			< 0.59	UJ	< 0.57	UJ			0.85	J	< 0.61	UJ
NICKEL	7440-02-0	1600	23000	mg/kg					16.9		9.9						26.6					
THALLIUM	7440-28-0	5	79	mg/kg																		
VANADIUM	7440-62-2	78	1100	mg/kg					26.3		20.2						56.0					

Table 3
Soil Analytical Results - Metals
Compared to NJDEP Residential and Non-Residential SRS
PPG Non-Residential Chromium Remediation Project
Site 186 Remedial Action Work Plan

					186-B3		186-B3		186-B4		186-B4		186-B4		186-B4		186-B4		186-B4		186-B4	
					8 - 8.5 ft		14 - 14.5 ft		0.5 - 1 ft		2 - 2.5 ft		2.5 - 3 ft		4 - 4.5 ft		6 - 6.5 ft		9 - 9.5 ft		14 - 14.5 ft	
					186-B3-8.0		186-B3-14.0		186-B4-0.5		186-B4-2.0		186-B4-2.5		186-B4-4.0		186-B4-6.0		186-B4-9.0		186-B4-14.0	
					460-25986-24		460-25986-25		460-25986-13		460-25986-14		460-25986-15		460-25986-16		460-25986-26		460-25986-27		460-25986-28	
					4/30/2011		4/30/2011		4/30/2011		4/30/2011		4/30/2011		4/30/2011		4/30/2011		4/30/2011		4/30/2011	
					N		N		N		N		N		N		N		N		N	
Analyte	CAS-RN	RDCSRS	NRDCSRS	Units	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q	R	Q
ANTIMONY	7440-36-0	31	450	mg/kg	< 1.0	UJ	< 0.99	UJ					1.6	J					< 1.0	UJ	< 1.0	UJ
CHROMIUM	7440-47-3	120000		mg/kg																		
CHROMIUM (HEXAVALENT)	18540-29-9	20	20	mg/kg	< 0.58	UJ			< 0.58	UJ	< 0.62	UJ			< 0.57	UJ	< 0.60	UJ	< 0.60	UJ		
NICKEL	7440-02-0	1600	23000	mg/kg	13.6		10.6						31.8						11.2		11.0	
THALLIUM	7440-28-0	5	79	mg/kg																		
VANADIUM	7440-62-2	78	1100	mg/kg	24.5		26.5						32.4						21.5		27.3	

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 Site 186 Remedial Action Work Plan

					186-B5		186-B6		186-B6		186-B7		186-B7	
					2.5 - 3 ft		2.5 - 3 ft		2.5 - 3 ft		0.5 - 1 ft		0.5 - 1 ft	
					186-B5-2.5-3.0		186-B6-2.5-3.0		186-B6-2.5-3.0X		186-B7-0.5-1.0		186-B7-0.5-1.0X	
					JB29073-2		JB29073-3		JB29073-4		JB23810-1		JB23810-2	
					02/16/2013		02/16/2013		02/16/2013		12/13/2012		12/13/2012	
					N		N		FD		N		FD	
Analyte	CAS-RN	RDCSRS	NRDCSRS	Units	R	Q	R	Q	R	Q	R	Q	R	Q
ANTIMONY	7440-36-0	31	450	mg/kg	3.3	J	1.7	J	3.1	J	0.33	J	0.49	J
CHROMIUM	7440-47-3	120000		mg/kg										
CHROMIUM (HEXAVALENT)	18540-29-9	20	20	mg/kg										
NICKEL	7440-02-0	1600	23000	mg/kg	31.6		27.9		26.5		14.4		13.4	
THALLIUM	7440-28-0	5	79	mg/kg										
VANADIUM	7440-62-2	78	1100	mg/kg							28.5		28.2	

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Soil Analytical Results - Metals
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PPG Non-Residential Chromium Remediation Project
Site 186 Remedial Action Work Plan

Notes:

All results are reported in milligrams per kilogram (mg/kg).

Depths are presented in feet below ground surface (bgs).

CAS-RN = Chemical Abstract Service Registry Number.

Sample Type = N indicates normal original sample; FD indicates duplicate sample.

Results = R indicates results; Q indicates qualifier

RDCSRS = Residential Direct Contact Soil Remediation Standard.

NRDCSRS = Non-Residential Direct Contact Soil Remediation Standard.

Bold values indicate that the result exceeds the RDCSRS.

Italic values indicate that the result exceeds the NRDCSRS.

B - Indicates that the analyte was detected at a concentration less than the Practical Quantitation Limit but greater than or equal to the Instrument Detection Limit.

E - Indicates that the value is estimated because of the presence of interference.

J - Indicates that the analyte was detected at a concentration less than the Method Detection Limit and is estimated.

N - Indicates that the sample recovery is not within control limits.

R - Indicates that the result for this analyte has been rejected.

U - Indicates that the analyte was not detected at the reported Method Detection Limit.

* - Indicates that the duplicate analysis not within control limits.

A blank result value indicates the analysis was not requested.